

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/08/2015

Reviewed on 05/08/2015

1: Identification

- **1.1 Product identifier**
- **Trade name: D-90G Developer**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
NDT Inspection penetrant per AMS-2644/ ASTM E-1417
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Sherwin Incorporated
5530 Borwick Ave
South Gate, CA 90280
Phone: (562) 861-6324
Fax: (562) 923-8370
<https://www.sherwininc.com/>
- **Information department:** Product safety department
- **1.4 Emergency telephone number:**
Chemtrec contract number 20103
Chemtrec +1-800-424-9300 in U.S.A.; outside U.S.A. 001-703-527-3887

2: Hazard(s) identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Not a hazardous substance or mixture..

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labeled according to the CLP regulation.
- **Hazard pictograms**

None
- **Signal word** None.
- **Hazard-determining components of labeling:**
None
- **Hazard statements**
Not a hazardous substance or mixture..
- **Precautionary statements**
Observe good industrial practices. Wear protective gloves.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
+P314 present and easy to do. Continue rinsing. Get medical advice/attention if irritation develops
and persists
P303+P332+P313 If on skin: Wash off with soap and water. Get medical advice/attention if irritation develops and
+P314 persists
P304+P340+P314 If inhaled: Move to fresh air. Get medical advice/attention if irritation develops and persists
P301+P330+P314 If ingested: Rinse mouth. Get medical advice/attention if irritation develops and persists

(Contd. on page 2)
USA

Trade name: D-90G Developer

(Contd. of page 1)

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3: Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

• **Dangerous components:**

None		

4: First-aid measures

- **4.1 Description of first aid measures**
- **General information:**
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves
- **After inhalation:**
Move to fresh air. Call a physician if symptoms develop or persist.
- **After skin contact:**
Wash off with soap and water. Get medical attention if irritation develops and persists.
- **After eye contact:**
Rinse with plenty of water. Get medical attention if irritation develops and persists.
- **After swallowing:**
Rinse mouth. Get medical attention if symptoms occur.

(Contd. on page 3)
USA

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/08/2015

Reviewed on 05/08/2015

Trade name: D-90G Developer

(Contd. of page 2)

- **4.2 Most important symptoms and effects, both acute and delayed**
Dusts may irritate the respiratory tract, skin and eyes. Coughing.
- **4.3 Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

5: Fire-fighting measures

- **5.1 Extinguishing media**
 - **Suitable extinguishing agents:**
Water haze
Foam
ABC powder
 - **For safety reasons unsuitable extinguishing agents:** Water spray
 - **5.2 Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed.
 - **5.3 Advice for firefighters**
No unusual fire or explosion hazards noted.
- Protective equipment:**
Use standard firefighting procedures and consider the hazards of other involved materials.

6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. For personal protection, see section 8 of the SDS.
- **6.2 Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Sweep up or vacuum up spillage.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7: Handling and storage

- **7.1 Precautions for safe handling**
Keep formation of airborne dusts to a minimum. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. Practice good housekeeping.
- **Information about protection against explosions and fires:**
Use explosion-proof apparatus / fittings and spark-proof tools.
Containers may be hazardous when empty since residue liquid and vapors may be present.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:** Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

(Contd. on page 4)
USA

Trade name: D-90G Developer

(Contd. of page 3)

- **7.3 Specific end use(s)** No further relevant information available.

8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

Magnesium Carbonate CAS 39408-82-0 OSHA PEL 15 mg/m³ total dust
NIOSH TWA 10 mg/m³ total dust

Silicon dioxide, chemically prepared CAS 112945-52-5 TWA 8 mg/m³ total dust

- **Additional information:** The lists that were valid during the creation were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Do not inhale dust. Routinely wash work clothing and protective equipment.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.



Ventilation System: A system of local or general exhaust is recommended to keep employee exposure below the airborne exposure limits. If exposure limit is exceeded use type P96(US) or type Pi(EU EN143 particle respirator. For higher level protection use type OV/AG/P99(US or ABEK-P2(EU EN 143) respirator cartridges.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**

Suitable gloves can be recommended by the glove supplier.

- **Penetration time of glove material**

Not applicable

- **Eye protection:**



Safety glasses

Wear safety glasses with side shields (or goggles).

(Contd. on page 5)
USA

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/08/2015

Reviewed on 05/08/2015

Trade name: D-90G Developer

(Contd. of page 4)

· **Body protection:** Use protective suit.

9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** Solid

· **Color:** Powder

· **Odor:** Odorless

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· **Melting point/Melting range:** Not determined.

· **Boiling point/Boiling range:** Not determined.

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Not determined.

· **Decomposition temperature:** > 482 °F (> 250 °C).

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

· **Lower:** Not determined.

· **Upper:** Not determined.

· **Vapor pressure:** Not determined.

· **Density at 20 °C (68 °F):** Not determined.

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

· **Water:** Not determined.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· **Dynamic:** Not determined.

· **Kinematic at 40 °C (104 °F):** Not determined.

· **Solvent content:**

· **Organic solvents:** 0.0 %

· **9.2 Other information** No further relevant information available.

Trade name: D-90G Developer

(Contd. of page 5)

10: Stability and reactivity

- **10.1 Reactivity**
The product is stable and non-reactive under normal conditions of use, storage and transport.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Material is stable under normal conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Avoid contact with acetaldehyde, acids, chlorine, ethylene oxide, isocyanate and strong oxidizing agents
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Not available
- **Primary irritant effect:**
- **on the skin:** May irritate the skin and mucous membranes.
- **on the eye:** May irritate the eye.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

This product is not considered to be a carcinogen	
Group 1	Carcinogenic to humans
Group 2A	Probably carcinogenic to humans
Group 2B	Possibly carcinogenic to humans
Group 3	Not classifiable as to its carcinogenicity to humans
Group 4	Probably not carcinogenic to humans

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
Information on hazardous ingredients

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

(Contd. on page 7)

USA

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/08/2015

Reviewed on 05/08/2015

Trade name: D-90G Developer

(Contd. of page 6)

- **12.2 Persistence and degradability** No data is available on the degradability of this product.
- **12.3 Bioaccumulative potential** No data available.
- **12.4 Mobility in soil** No data available.
- **Ecotoxicological effects:**
- **Remark:**
No data available.
- **Additional ecological information:**
- **General notes:**
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Do not allow product to reach sewage system.
Collect all waste in suitable and labeled containers and dispose according to local legislation.
- **Uncleaned packagings:**
- **Recommendation:**
Waste / used products
Waste products and empty packages dispose of in accordance with local regulations.
Empty containers may residue.
- **Recommended cleansing agent:** Water with cleansing agents.

14: Transport information

- **14.1 UN-Number**
 - **DOT**
 - **DOT**
 - **14.2 UN proper shipping name**
 - **DOT**
 - **ADR, IMDG, IATA**
- Not regulated as dangerous goods.
- Not regulated as dangerous goods

Printing date 05/08/2015

Reviewed on 05/08/2015

Trade name: D-90G Developer

- **14.3 Transport hazard class(es)**
- **ADR, IMDG, IATA**

(Contd. of page 7)

Not applicable

- **14.4 Packing group**
- **DOT, ADR, IMDG, IATA**

Not applicable

- **14.5 Environmental hazards:**
- **Marine pollutant:**

No

- **14.6 Special precautions for user**

None

- **Transport/Additional information:**

· None

15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 302 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredient is listed

Section 311/312

No SARA Hazards

- **TSCA (Toxic Substances Control Act):**

Materials on inventory

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/08/2015

Reviewed on 05/08/2015

Trade name: D-90G Developer

(Contd. of page 8)

Proposition 65

• **Chemicals known to cause cancer:**

None of the ingredients is listed.

• **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

• **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

• **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

• **Carcinogenicity categories**

• **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

• **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

• **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

• **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Contact:** Sherwin Incorporated

• **Date of preparation / last revision** 05/08/2015 / -

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

• *** Data compared to the previous version altered.**